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Project #08.MR-6

BIM and GIS Usage

Project Objectives

- **Foster usage of GIS, BIM, the SDSFIE, and the USACE Road Map to enable data sharing**

- **Continue object-relational database coordination**

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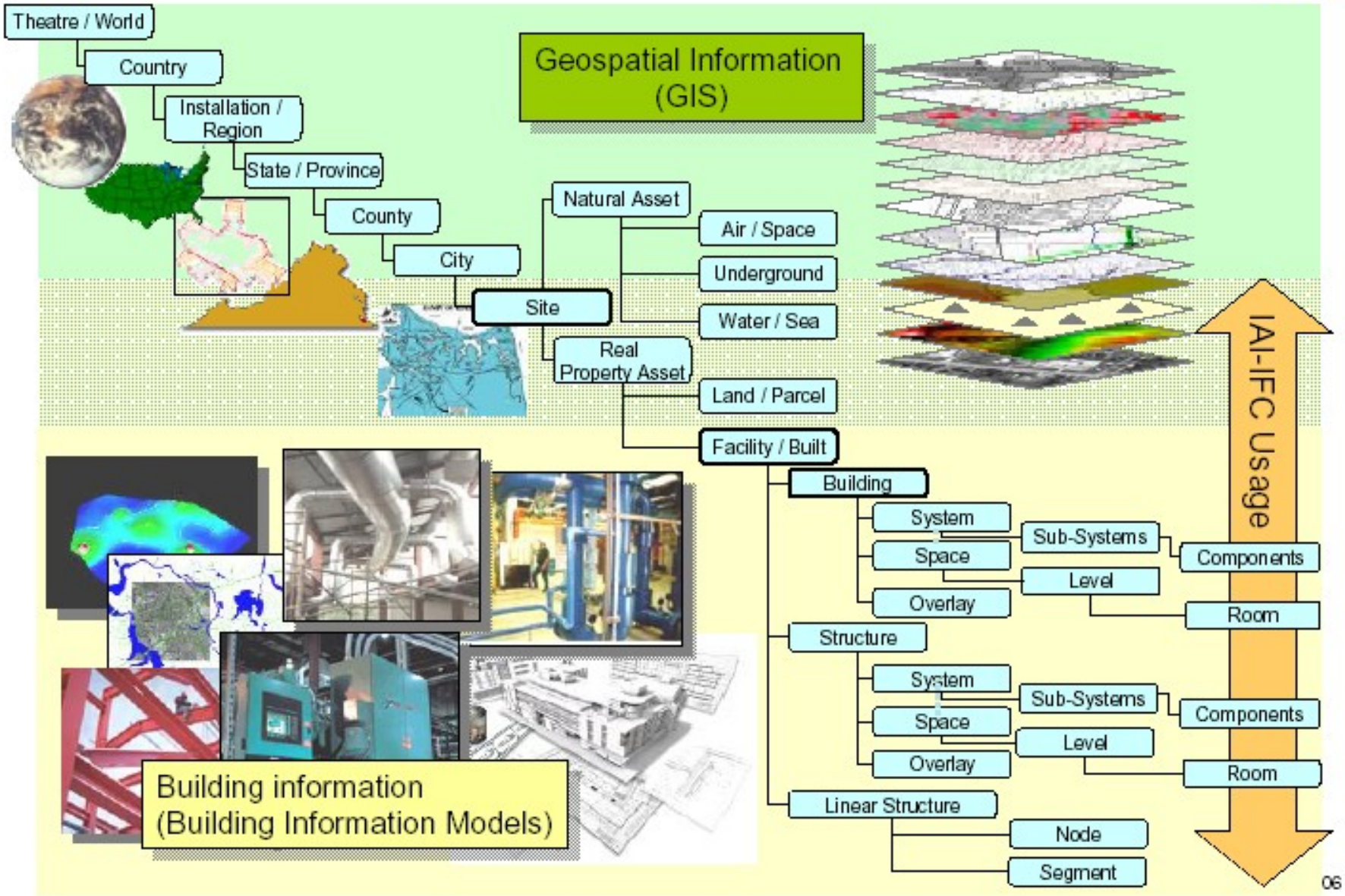
Project Products

- Process flows (following slides)
- Procedures for BIM, GIS and the SDSFIE usage (Word document)
- Presentations concerning BIM and GIS implementations (other .ppt)
- Presentation of BIM and GIS interoperability (this .ppt)
- Google Earth Pro .kmz models demo (.avi in this .ppt)

NBIMS

Hierarchical Information Relationships



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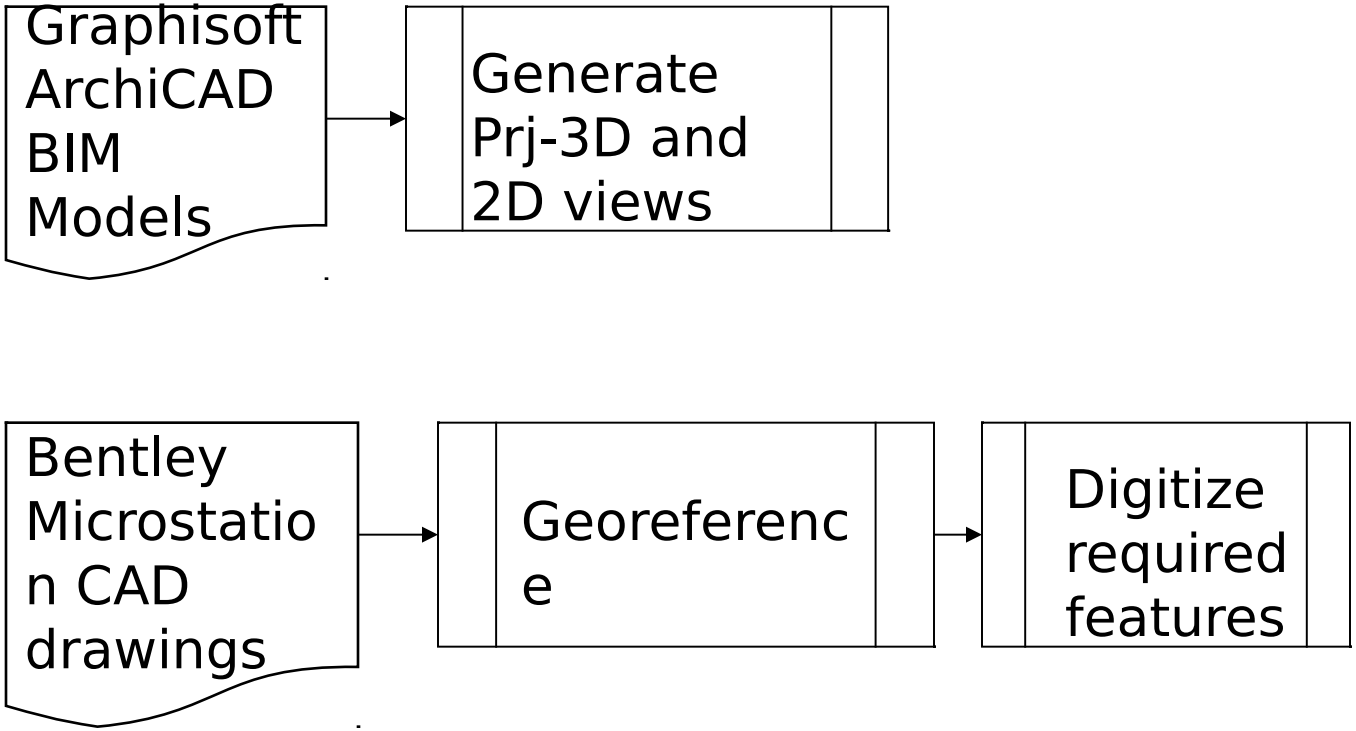
Process Flows

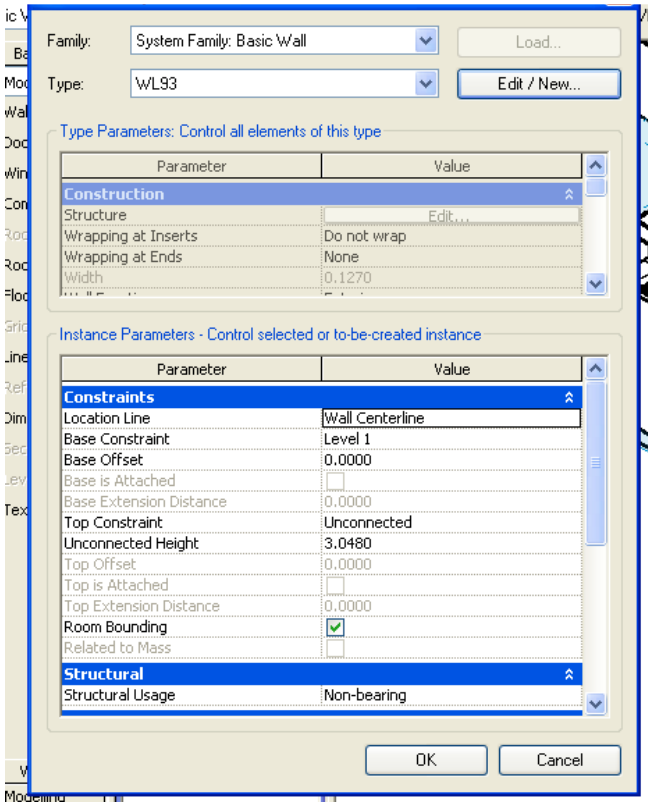
- **Preparing BIM & CAD**
- **Preparing GIS**
- **Populating data**
- **Interoperability**

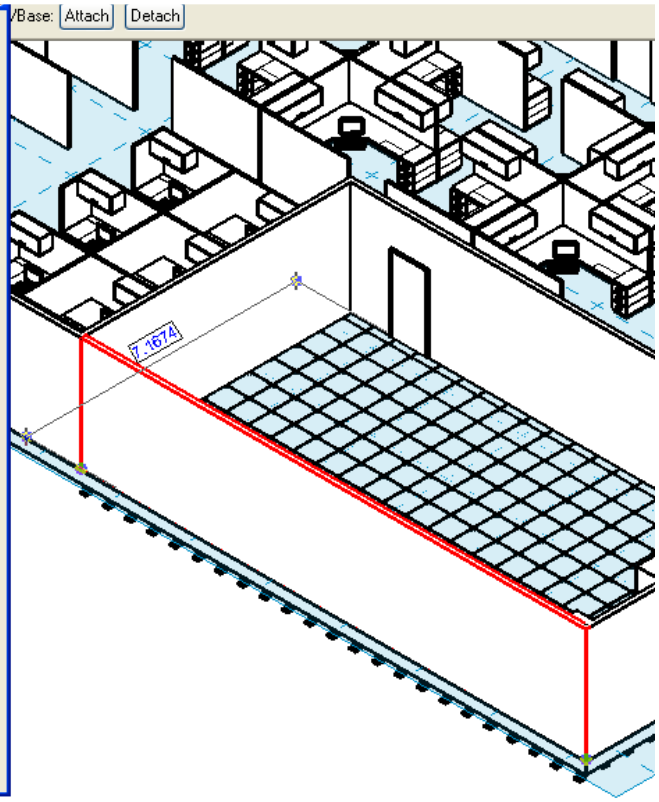
Preparing BIM & CAD



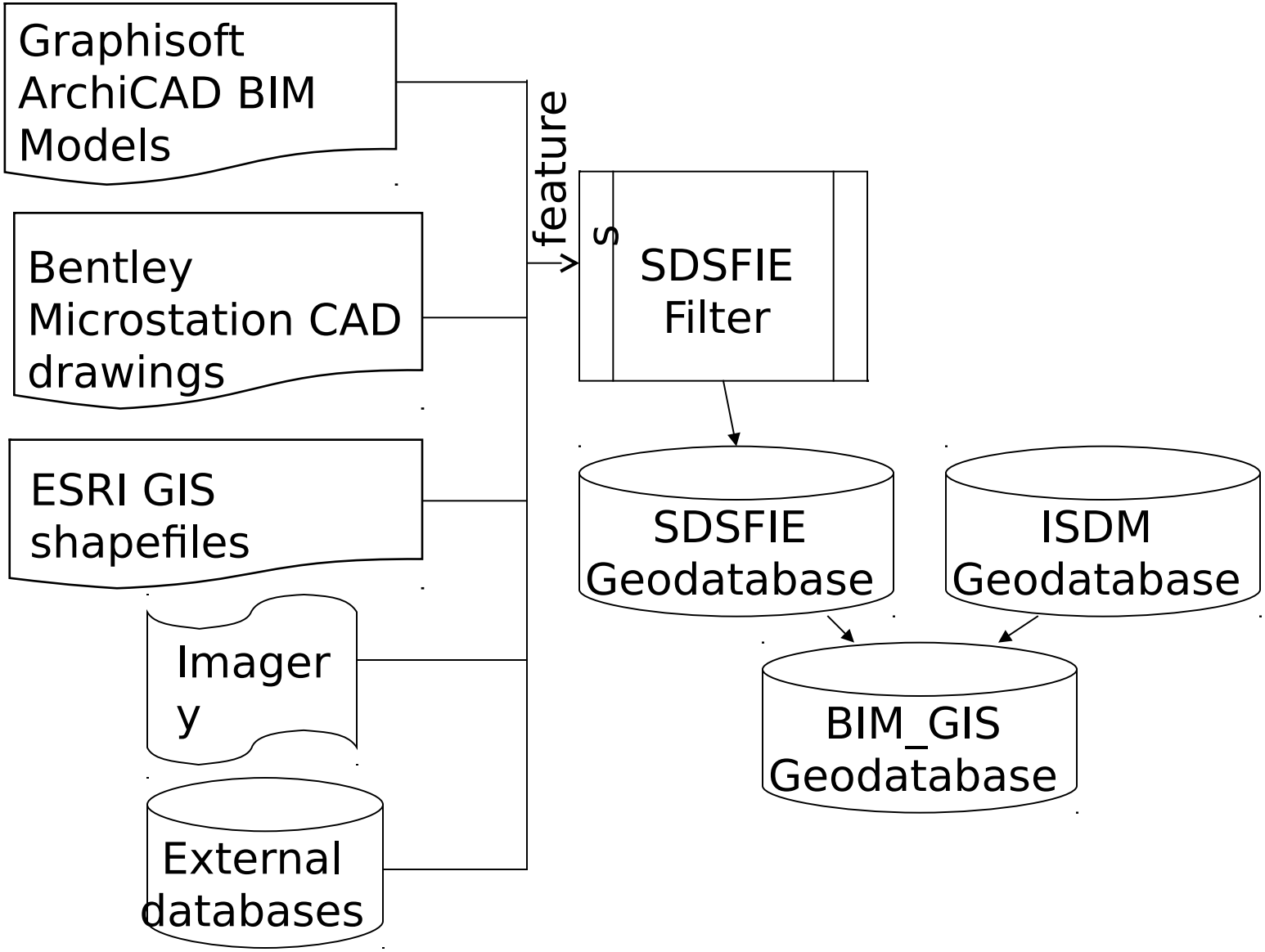
Preparing BIM & CAD

- Exported ArchiCAD BIM Model of Information Technology Laboratory (ITL) to IFC 2x2
- Imported IFC to AutoDesk Revit Architecture 2008
- Exported 3D dwg file

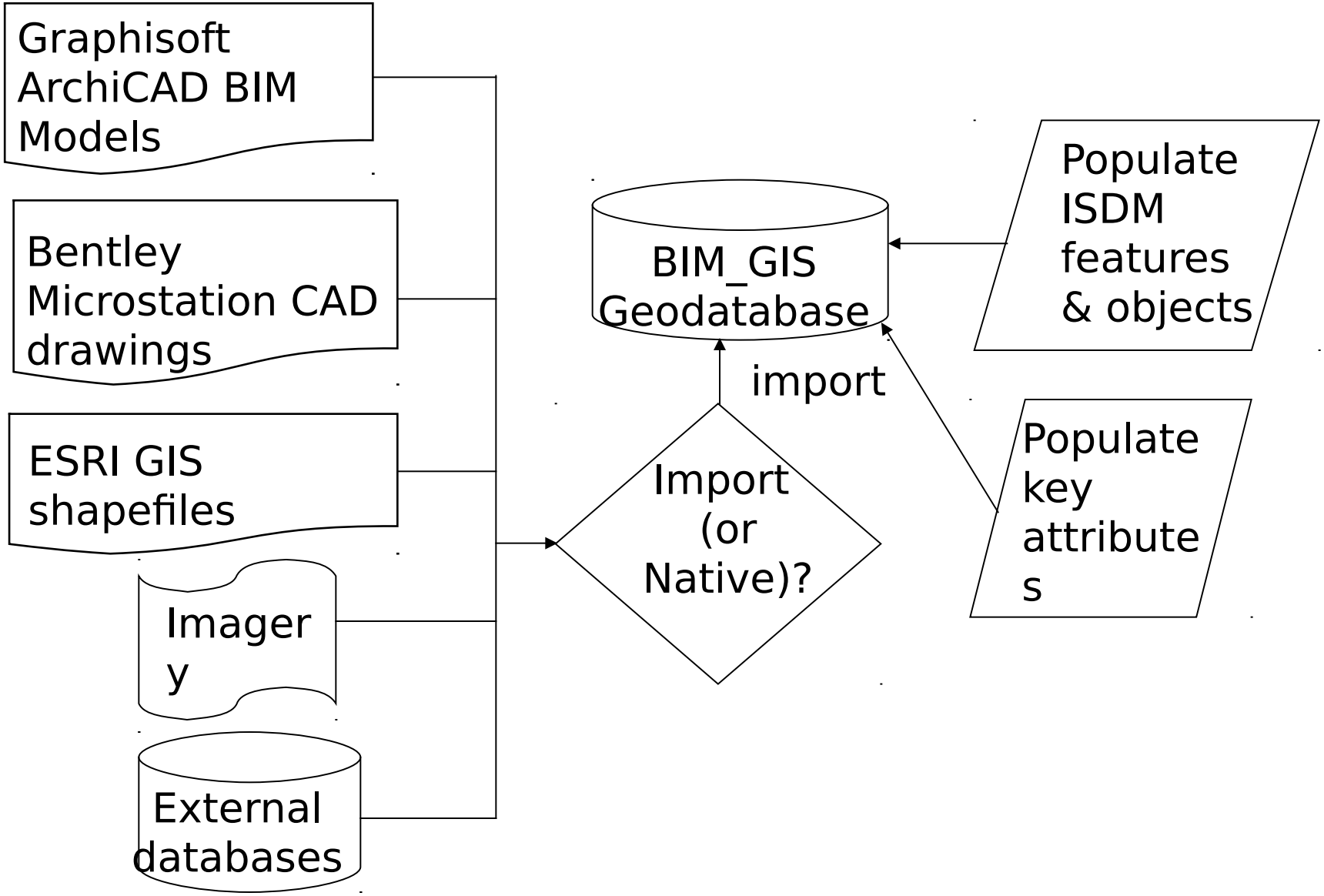




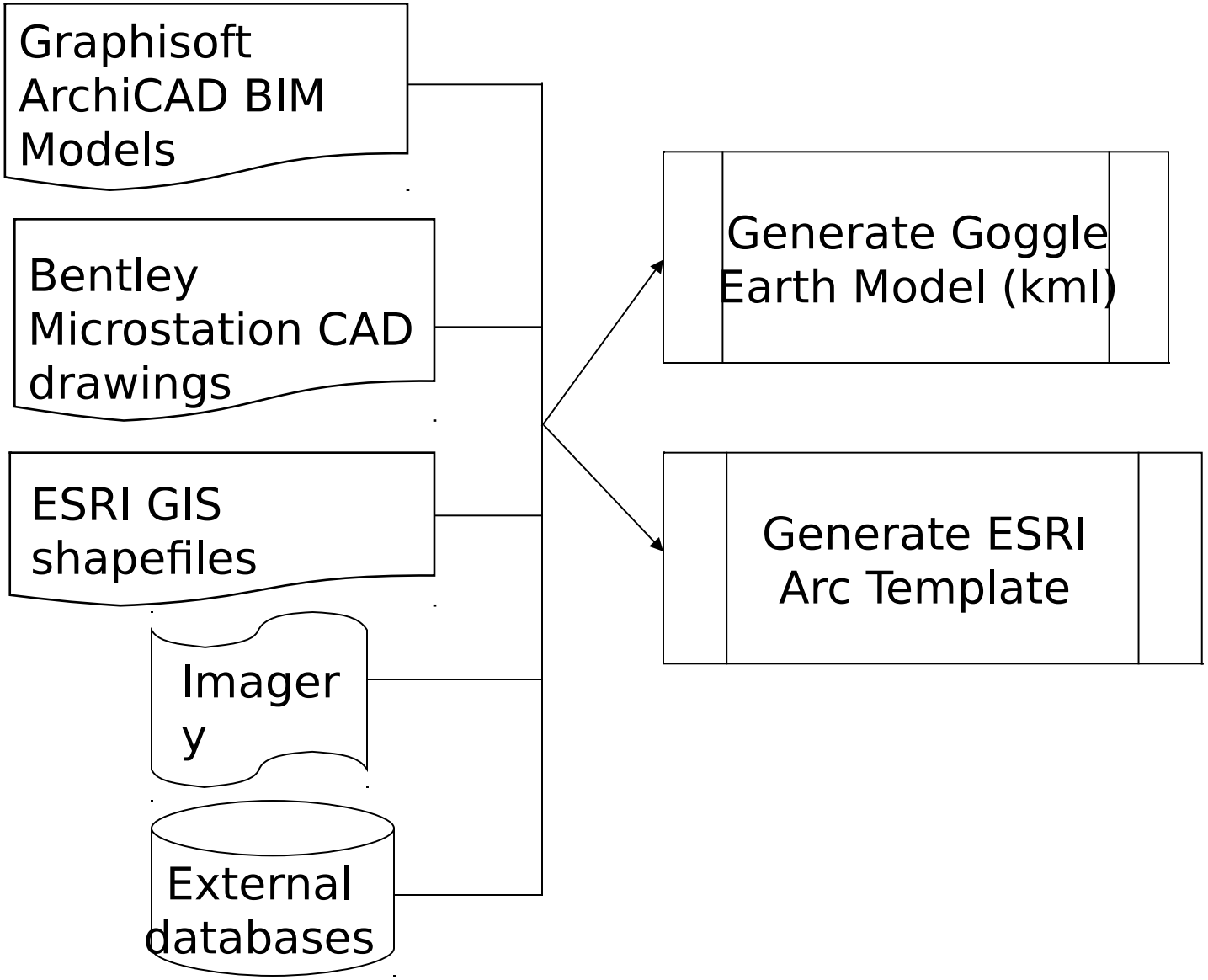
Preparing GIS



Populating Data

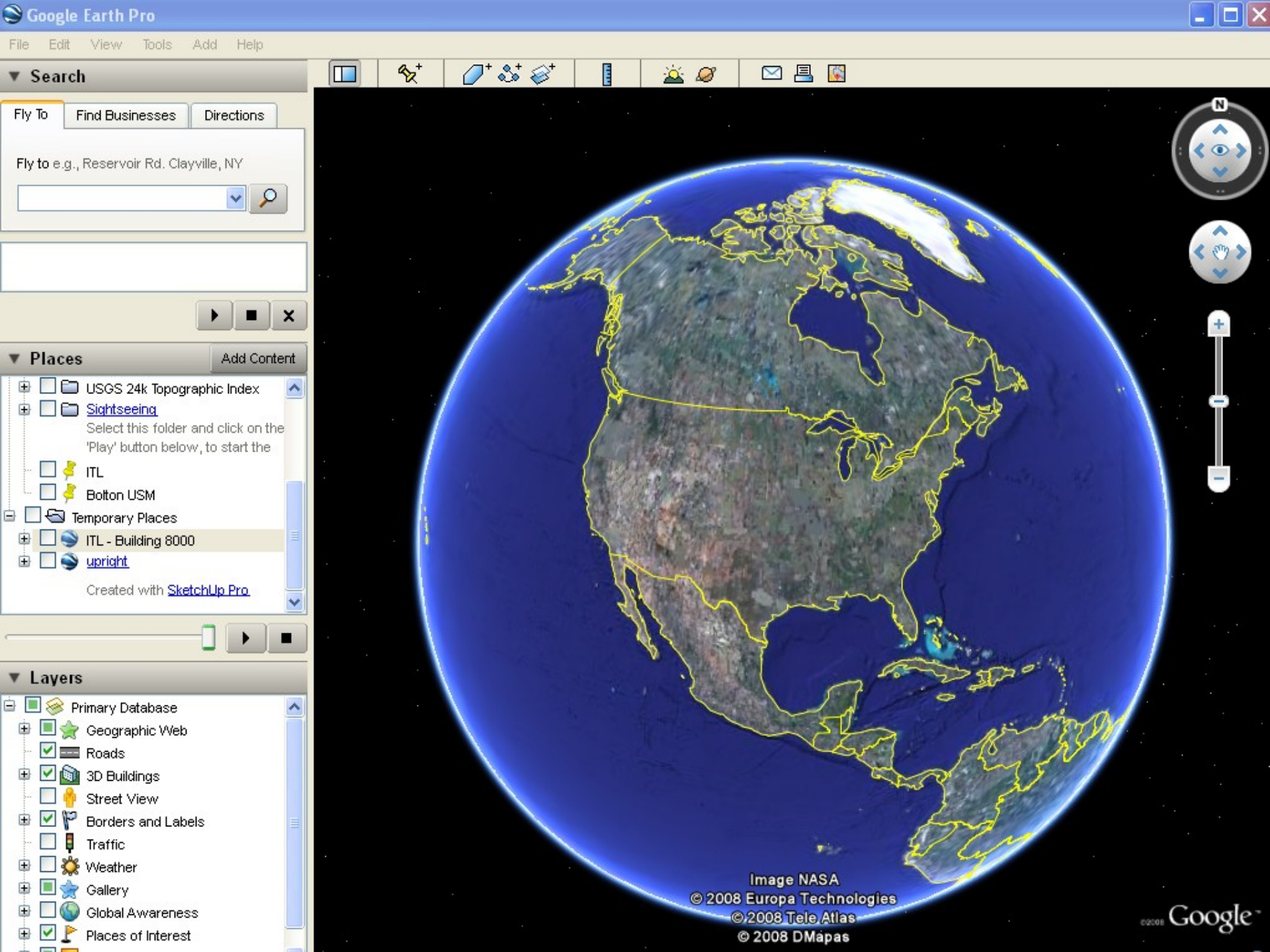


Interoperability



Interoperability

- Imported dwg file into SketchUp
- Exported 3D models to .kmz files for Google Earth
- Exported ESRI shapefiles to .kmz files for supporting


Google Earth Pro
File Edit View Tools Add Help
Search
Fly To
Find Businesses
Directions
Fly to e.g., Reservoir Rd. Clayville, NY
Places
Add Content
USGS 24k Topographic Index
Sightseeing
Select this folder and click on the 'Play' button below, to start the
ITL
Bolton USM
Temporary Places
ITL - Building 8000
upright
Created with SketchUp Pro
Layers
Primary Database
Geographic Web
Roads
3D Buildings
Street View
Borders and Labels
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Global Awareness
Places of Interest
N
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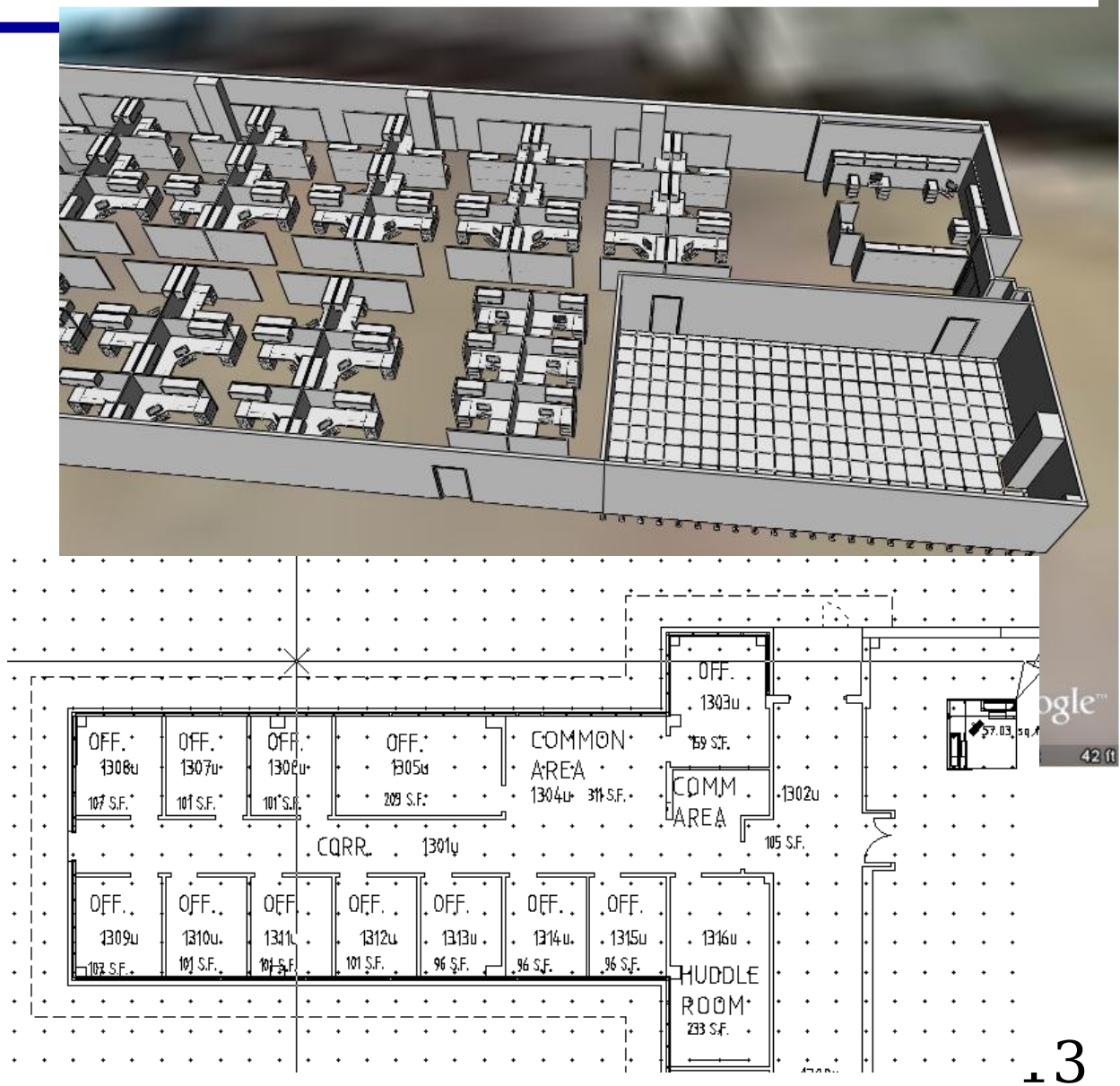
Tasks Ahead

- Determine usefulness of Google Earth displays
- Access BIM attributes
- Linkage to external databases



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Questions